

Amendment under 37 C.F.R. §1.116
Serial No. 09/582,094
Attorney Docket No. 000725

AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

Claim 1 (Withdrawn): A microscope having a thin sheet-like mirror, which is formed in such a way that the width of the tip of this thin sheet-like mirror becomes narrower, and having a mirror surface formed at an acute angle at the said tip end.

Claim 2 (Withdrawn): A microscope as claimed in claim 1, further characterized in that the above-mentioned thin sheet-like mirror is formed like a taper, i.e., in a convergent shape.

Claim 3 (Withdrawn): A microscope as claimed in either claims 1 or 2, further characterized in that the above-mentioned thin sheet-like mirror is supported with a support bar arranged at the base thereof.

Claim 4 (Withdrawn): A microscope as claimed in claim 3, further characterized in that the above-mentioned thin sheet-like mirror is supported with a support bar, which is constructed as a unit at the base thereof.

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Claim 5 (Withdrawn): A microscope as claimed in either claims 3 or 4, further characterized in that the above-mentioned support bar can be detached from and rotated around a hand piece and is capable of rotation.

Claim 6 (Withdrawn): A microscope as claimed in any of claims 3 to 5, further characterized in that it has a fastening to fix the above-mentioned support to a predetermined angle.

Claim 7 (Withdrawn): A microscope comprised of a means of light emission and reception for illuminating light and image light, a thin sheet-like mirror arranged at this means of light emission and reception, this thin sheet-like mirror being formed so that its width becomes narrower and narrower toward the tip, and a mirror surface that is formed at the said tip at an acute angle.

Claim 8 (Withdrawn): A microscope comprised of a means of light emission and reception, comprised of a straight-through bore having a built-in source of illuminating light, and a light reception bore for image light; and a thin sheet-like mirror, arranged in a closed and adjacent manner with the straight-through bore and the light reception bore of this means of light emission and reception, wherein the width of this thin sheet-like mirror is formed to become narrower towards the tip separately, the mirror surface is formed at an acute angle at the said tip,

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the said thin sheet-like mirror navigates illuminating light so as to reflect and irradiate the light at the mirror surface, and the thus reflected and returned image light can be navigated by making a reflection at the said mirror surface.

Claim 9 (Withdrawn): A microscope as claimed in claim 1, further characterized in that a combination of a magnifying lens and the above-mentioned thin sheet-like mirror makes it a loupe.

Claim 10 (Withdrawn): A charge-coupled device-type video microscope comprised of: a means of light emission and reception, comprised of a straight-through bore having a built-in source of the compact charge-coupled device camera's illuminating light, and a light reception bore for image light separately; and a thin sheet-like mirror, arranged in a closed and adjacent manner with the straight-through bore and the light reception bore of this means of light emission and reception, wherein the width of this thin sheet-like mirror is formed to become narrower towards the tip, and the mirror surface is formed at an acute angle at the said tip, the above-means thin sheet-like mirror navigates illuminating light so as to reflect and irradiate the light at the said mirror surface, and the thus reflected and returned image light can be navigated by making a reflection at the said mirror surface.

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Claim 11 (Previously Presented): A microscope comprised of:

a means of light emission and reception, comprised of a straight-through bore having a built-in source of illuminating light, and a light reception bore for image light separately;

a rectangular thin sheet-like mirror, arranged in a closed and adjacent manner with the straight-through bore and the light reception bore of the means of light emission and reception, wherein a mirror surface is formed at an acute angle at the tip thereof,

said thin sheet-like mirror navigates illuminating light so as to reflect at said mirror surface, and irradiate the light and a thus reflected and returned image light can be navigated and condensed by making a reflection at said mirror surface,

wherein said light reception bore for the image and the straight-through bore are aligned in a row in a horizontal direction perpendicular to the depth of the thin sheet-like mirror.

Claim 12 (Withdrawn-Currently Amended): A microscope comprised of:

a means of light emission and reception, comprised of a straight-through bore having a built-in source of illuminating light, and a light reception bore for image light separately; and a rectangular thin sheet-like mirror, arranged in a closed and adjacent manner with the straight-through bore and the light reception bore of this said means of light emission and reception, wherein the a mirror surface is formed at an acute angle at the tip thereof,

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~~the~~ said thin sheet-like mirror is composed of ~~the~~ said thin sheet-like mirrors formed separately and binded each other in accordance with ~~the~~ said straight-through bore and the light reception bore,

~~the~~ said thin sheet-like mirror navigates illuminating light so as to reflect at ~~the~~ said mirror surface and irradiate the light, and ~~the~~ a thus reflected and returned image light can be navigated and condensed by making a reflection at ~~the~~ said mirror surface,

wherein said light reception bore for the image and the straight-through bore are aligned in a row in a horizontal direction perpendicular to the depth of the thin sheet-like mirror.

Claim 13 (Previously Presented): A microscope comprised of: a means of light emission and reception, comprised of a straight-through bore having a built-in source of illuminating light, and a light reception bore for image light separately; and a rectangular thin sheet-like mirror, arranged in a closed and adjacent manner with the straight-through bore and the light reception bore of the means of light emission and reception, wherein a mirror surface is formed at an acute angle at the tip thereof,

said rectangular thin sheet-like mirror has a half mirror at a base side surface, which takes in said illuminating light and irradiates said image light,

said rectangular thin sheet-like mirror reflects the illuminating light at said half mirror, navigates, and reflects at said mirror surface to irradiate the light; a thus reflected and returned image light can be reflected at said mirror surface, and navigated to get the light condensed,

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wherein said light reception bore for the image and the straight-through bore are aligned in a row in a horizontal direction perpendicular to the depth of the thin sheet-like mirror.

Claim 14 (Cancelled).

Claim 15 (Previously Presented): A microscope comprised of: a means of light emission and reception for illuminating light and image light comprised of a straight-through bore having a built-in source of illuminating light, and a light reception bore for image light separately;

a rectangular thin sheet-like mirror arranged in the means of light emission and reception; and a mirror surface formed at the tip of the thin sheet-like mirror at an acute angle, wherein said mirror is the separate type in accordance with the means of light emission and reception,

wherein said light reception bore for the image and the straight-through bore are aligned in a row in a horizontal direction perpendicular to the depth of the rectangular thin sheet-like mirror.

Claims 16 and 17 (Cancelled).

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Claim 18 (Currently Amended): A microscope as claimed in any of claims ~~11 to 18~~ 11, 13 or 15, further characterized in that the ~~above mentioned~~ rectangular thin sheet-like mirror is detachable from a hand piece.

Claim 19 (Withdrawn): A microscope characterized in that it is a charge-coupled device-type video microscope with a built-in compact charge-coupled device camera.

Claim 20 (Cancelled)

Claim 21 (Currently Amended): The microscope as recited in claims 11, ~~12, 13, 14~~ 13 or 15, 16, 18, 19, or 20, wherein the sheet-like mirror has a ~~shape and~~ dimension that correspondences to a size of a region of observation of a target object.